

CLAIMS

What is claimed is:

1. A device for assaying a fluid for the presence or absence of different analytes comprising:
 - (A) a base having adjacent slots therein of sufficient length for insertion of a test strip therein, wherein each slot is defined by (a) a floor, (b) raised walls depending upwardly from the floor to separate each adjacent slot from the next, and (c) at least one open end;
 - (B) a multiplicity of test strips having an upstream and a downstream end, wherein a single test strip is inserted into each slot of the base so the downstream end of each test strip protrudes out of the open end of each slot; and,
 - (C) a cover attached to the upwardmost surface of each raised wall of the slots of the base, wherein the cover retains the test strips within the slots and has a first transparent window formed therein through which each of the test strips can be viewed.
2. The device according to Claim 1 further comprising a cap for insertion over the protruding ends of the test strips.
3. The device according to Claim 1 further comprising a second transparent window formed within the cover through which the test strips can be viewed.
4. The device according to Claim 1 wherein each test strip has a test zone therein and each test zone contains a binder specific for a different analyte.
5. The device according to Claim 4 wherein each binder is specific for a different drug of abuse.
6. The device according to Claim 4 wherein each test zone is visible through the first transparent window of the cover.
7. The device according to Claim 4 wherein each test strip further comprises a label upstream of the test zone, which label identifies the analyte for which the binder is specific.
8. The device according to Claim 3 and Claim 7, wherein the label on the test strip is visible through the second transparent window of the cover.

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9. The device according to Claim 4, further comprising test strips for determining the integrity of the fluid analyte sample.

10. A device for assaying a fluid for the presence or absence of different analytes comprising:

(A) a base having adjacent slots therein of sufficient length for insertion of a test strip therein, wherein each slot is defined by (a) a floor, (b) raised walls depending upwardly from the floor to separate each adjacent slot from the next, and (c) at least one open end;

(B) a multiplicity of test strips having an upstream and a downstream end, wherein a single test strip is inserted into each slot of the base so the upstream end of each test strip protrudes out of the open end of each slot;

(C) a cover having (a) a first section attached to the upwardmost surface of each raised wall of the slots of the base, wherein the first section of the cover retains the test strips within the slots and has a first transparent window formed therein through which each of the test strips can be viewed, and (b) a second section enclosing the protruding ends of the test strips, the second section comprising:

(i) a sample port formed through which fluid analyte sample may be applied to the protruding ends of the test strips; and,

(ii) a floor opposing the sample port, the floor comprising a wall having a raised bar therein which defines a fluid reservoir beneath the sample port.

11. The device according to Claim 10 wherein the second section of the cover is removable from the first section of the cover.

12. The device according to Claim 10 further comprising a second transparent window formed within the cover through which the test strips can be viewed.

13. The device according to Claim 10 further comprising a multiplicity of test strips inserted into each slot of the base, wherein each test strip has a test zone therein and each test zone contains a binder specific for a different analyte.

14. The device according to Claim 13 wherein each binder is specific for a different drug of abuse.

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15. The device according to Claim 13 wherein each test zone is visible through the first transparent window of the cover.

16. The device according to Claim 13 wherein each test strip further comprises a label downstream of the test zone, which label identifies the analyte for which the binder is specific.

17. The device according to Claim 12 and Claim 16, wherein the label on the test strip is visible through the second transparent window of the cover.

18. The device according to Claim 5 wherein the drug of abuse is selected from the group consisting of methamphetamine, opiates/morphine, marijuana/tetrahydrocannabinol, amphetamine, cocaine/benzoylecgonine, methadone, PCP, barbituate, trichloroacetic acid and benzodiazepine.

19. The device according to Claim 14 wherein the drug of abuse is selected from the group consisting of methamphetamine, opiates/morphine, marijuana/tetrahydrocannabinol, amphetamine, cocaine/benzoylecgonine, methadone, PCP, barbituate, trichloroacetic acid and benzodiazepine.

20. The device according to Claim 13, further comprising test strips for determining the integrity of the fluid analyte sample.

21. A device for separating a fluid analyte sample for use in multiple assay procedures, the device comprising a ring having an outer diameter sufficient to allow insertion of the ring into a specimen collection cup, and a collection chamber bisecting the ring, wherein the collection chamber is "v"-shaped with an open bight and opposing ends closed by attachment to the ring.

22. A method for assaying a fluid analyte sample for the presence or absence of multiple analytes, the method comprising:

(A) immersing the protruding ends of the test strips of the device of Claim 1 into the fluid analyte sample; and,

(B) reading the assay results through the first transparent window of the cover.

23. The method according to Claim 22, further comprising the step A', wherein the sample in a closed specimen collection cup having the separation device of Claim 21

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placed therein and the sample separation is accomplished by inverting the specimen collection cup to allow fluid analyte sample to flow into the collection chamber of the separator device; and wherein further step A is performed by immersing the protruding ends of the test strips into the fluid collected in the chamber.

24. A method for assaying a fluid analyte sample for the presence or absence of multiple analytes, the method comprising:

(A) applying fluid analyte sample through the sample port of the cover of the device of Claim 10 to contact the test strips of the device; and,

(B) reading the assay results through the first transparent window of the cover.

25. A method for separating a fluid analyte sample for use in multiple assay procedures, wherein the sample is contained in a closed specimen collection cup having the separation device of Claim 21 placed therein, the method comprising inverting the specimen collection cup to allow a portion of the fluid analyte sample to flow into the collection chamber of the separator device and the remainder of the fluid analyte sample to be retained in the specimen collection cup.